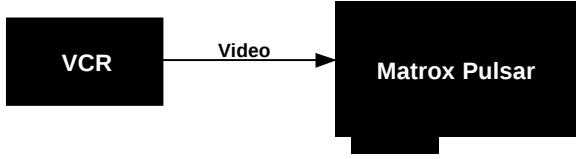


Application Note:

Interfacing VCRs to Matrox Pulsar

VCR-General

May 2, 1996

VCR Interface Overview	• 640 x 480 x 8-bit @ 30fps (NTSC) or 768 x 574 x 8-bit @ 25fps (PAL) • analog (composite) video output • interlaced
VCR Interface Details	1. NTSC VCRs • 640 x 480 x 8-bit @ 30fps • analog (composite) video output • interlaced • DCF used: VCR_NTSC.DCF  <pre>graph LR; VCR[VCR] -- Video --> MatroxPulsar[Matrox Pulsar]</pre> 2. PAL VCRs • 768 x 574 x 8-bit @ 25fps • analog (composite) video output • interlaced • DCF used: VCR_PAL.DCF
Required modifications to Pulsar	NTSC and PAL VCRs • Matrox Pulsar board 586-01 rev. A must be ordered with or must be returned to Matrox for modification APE#314 (this modification number must be clearly indicated)
Cabling Requirements	NTSC and PAL VCRs • IMG-7W2-TO-1BNC cable required • video input BNC of IMG-7W2-TO-1BNC cable should be connected to VIDEO OUT BNC connector of VCR

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VCR-General

May 2, 1996

Special Considerations	NTSC and PAL VCRs • pulsar.res version 3.53 dated 04/16/96 or newer is required; if this version is not on your release of the MIL driver for Pulsar, the newest version can be found on the BBS or at the FTP site • NTSC VCR tested at Matrox using VCR_NTSC.DCF: Panasonic AG-1960 Proline (SVHS) • PAL VCR tested at Matrox using VCR_PAL.DCF: Panasonic AG-7650-B (SVHS). Note: the AG-7650-B has time base corrector (TBC) control but was tested without it; the grab from the VCR using VCR_PAL.DCF functioned properly even when the VCR was without time base corrector (TBC) control • the grab from a VCR is not perfect, especially during slow motion and pause modes; for example, occasionally a horizontal tear will appear in the display. However, these DCFs enable the best possible grab from a VCR and must not be altered in any way
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The DCF(s) mentioned in this application note can be found on the MIL and MIL-Lite CD, or our FTP site ([ftp.matrox.com](ftp:ftp.matrox.com)). The information furnished by Matrox Electronics System, Ltd. is believed to be accurate and reliable. Please verify all interface connections with camera documentation or manual. Contact your local sales representative or Matrox Sales office or Matrox Imaging Applications at 514-822-6061 for assistance.

Corporate
Headquarters:
Canada and U.S.A.
Matrox Electronic
Systems Ltd.
1055 St.Regis Blvd.
Dorval, Quebec, Canada
H9P 2T4
Tel: (514) 685-7230
Fax: (514) 822-6273

